

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Harris
Filed: Concurrently Herewith
For: WATER SOLUBLE AND HYDROLYTICALLY STABLE
ACTIVE SULFONES OF POLY(ETHYLENE GLYCOL)
AND RELATED POLYMERS FOR MODIFICATION OF
SURFACE AND MOLECULES

August 25, 2003

Mail Stop Patent Applications
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

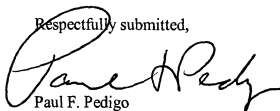
**INFORMATION DISCLOSURE STATEMENT
CITATION UNDER 37 C.F.R. § 1.97**

Attached is a list of documents on form PTO-1449.

It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

Any foreign patents or non-patent literature documents items are attached, except those that were supplied in, or cited by the Office during prosecution of, parent Application No. 09/294,188 filed April 19, 1999. Since the benefit of this application was claimed under 35 U.S.C. 120, no copies need to be furnished in accordance with 37 C.F.R. 1.98(d); however, copies will be furnished on request.

Respectfully submitted,



Paul F. Pedigo
Registration No. 31,650

Customer No. 00826
ALSTON & BIRD LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000
Tel Charlotte Office (704) 444-1000
Fax Charlotte Office (704) 444-1111

"Express Mail" mailing label number EV 331610583US
Date of Deposit August 25, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Mail Stop Patent Applications Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Grace R. Rippey

Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				C mplete if Kn wn		
				Application Number		
				Filing Date		
				First Named Inventor		
				Group Art Unit		
Examiner Name				Attorney Docket Number		
Sheet 1 of 4		034848/268046				
U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear	
	1	US-3,784,524	01/08/1974	Morgan		
	2	US-4,002,531	01/11/1977	Rover		
	3	US-4,066,581	01/03/1978	Sieber		
	4	US-4,066,638	01/03/1978	Fuchs et al.		
	5	US-4,101,380	07/18/1978	Rubinstein et al.		
	6	US-4,134,887	01/16/1979	Fuchs et al.		
	7	US-4,179,337	12/18/1979	Davis et al.		
	8	US-4,179,387	12/18/1979	Sasazawa et al.		
	9	US-4,228,019	10/14/1980	Hunter		
	10	US-4,241,199	12/23/1980	Dunleavy		
	11	US-4,280,979	07/28/1981	Dunleavy et al.		
	12	US-4,296,097	10/20/1981	Lee et al.		
	13	US-4,356,166	10/26/1982	Peterson et al.		
	14	US-4,424,311	01/03/1984	Nagaoka et al.		
	15	US-4,430,260	02/07/1984	Lee et al.		
	16	US-4,473,693	09/25/1984	Stewart		
	17	US-4,559,179	12/17/1985	Hisamoto et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
	18	EP 0 247 860	12/02/1987	Cetus Corporation		
	19	WO 87/00056	01/15/1987	Cetus Corporation		
	20	WO 90/04384	05/03/1990	Royal Free Hospital School of Medicine		
	21	WO 90/04606	05/03/1990	Royal Free Hospital School of Medicine		
Examiner Signature			Date Considered			

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number		
				Filing Date	Concurrently Herewith	
				First Named Inventor	Harris	
				Group Art Unit		
Examiner Name						
Sheet	2	of	4	Attorney Docket Number	034848/268046	
U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear	
	22	US-4,616,644	10/14/1986	Saferstein et al.		
	23	US-4,670,417	06/02/1987	Iwasaki et al.		
	24	US-4,677,027	06/30/1987	Porath et al.		
	25	US-4,696,980	09/29/1987	Porath		
	26	US-4,766,106	08/23/1988	Katre et al.		
	27	US-4,791,192	12/13/1988	Nakagawa et al.		
	28	US-4,845,024	07/04/1989	Himmelmann et al.		
	29	US-4,871,785	10/03/1989	Froix		
	30	US-4,883,864	11/28/1989	Scholz		
	31	US-4,902,502	02/20/1990	Nitecki et al.		
	32	US-4,917,888	04/17/1990	Katre et al.		
	33	US-4,931,544	06/05/1990	Katre et al.		
	34	US-4,931,579	06/05/1990	Heidenreich et al.		
	35	US-4,965,112	12/23/1990	Brinkman et al.		
	36	US-4,973,493	11/27/1990	Guire		
	37	US-4,983,494	01/08/1991	Kitaguchi et al.		
	38	US-5,080,891	01/14/1992	Saifer et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
	39	WO 90/04650	05/03/1990	Royal Free Hospital School of Medicine		
	40	WO 90/15628	12/27/1990	Cetus Corporation		
	41	WO 91/07190	05/30/1991	Enzon, Inc.		
Examiner Signature				Date Considered		

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	
				Filing Date	Concurrently Herewith
				First Named Inventor	Harris
				Group Art Unit	
				Examiner Name	
Sheet	3	of	4	Attorney Docket Number	034848/268046

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
	42	US-5,089,261	02/18/1992	Nitecki et al.	
	43	US-5,122,614	06/16/1992	Zalipsky	
	44	US-5,153,265	10/06/1992	Shadle et al.	
	45	US-5,162,430	11/10/1992	Rhee et al.	
	46	US-5,171,264	12/15/1992	Merrill	
	47	US-5,414,135	05/09/1995	Snow et al.	
	48	US-5,543,332	08/06/1996	Lihme et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
	49	WO 92/04384	03/19/1992	Regents of the University of Minnesota		
	50	WO 92/06678	04/30/1992	Board of Regents, The University of Texas System		
	51	WO 92/07006	04/30/1992	Berol Nobel AB		
	52	WO 92/13095	08/06/1992	Synergen, Inc.		
	53	WO 92/16555	10/01/1992	Enzon, Inc.		
	54	WO 92/16221	10/01/1992	Synergen, Inc.		
	55	WO 93/01498	01/21/1993	Immunodex K/S		
	56	WO 92/16292	10/01/1992	Kem-Entec		
	57	EP 0 622 394 A1	11/02/1994	S.A. Laboratories		
Examiner Signature				Date Considered		

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Revised 04/2003)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	
		Filing Date	Concurrently Herewith
		First Named Inventor	Harris
		Group Art Unit	
		Examiner Name	
Sheet	4	of	4
		Attorney Docket Number	034848/268046
OTHER DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
	58	Woghiren et al., "Protected Thiol-Polyethylene Glycol: A New Activated Polymer for Reversible Protein Modification," <i>Bioconjugate Chem.</i> , 1993, Vol. 4, No. 5, Pages 314-318.	
	59	Yoshinga et al., "Effects of Coupling Chemistry on the Activity of Poly(Ethylene Glycol)-Modified Alkaline Phosphatase," <i>Journal of Bioactive and Compatible Polymers</i> , January, 1989, Vol. 4, Pages 17-24	
	60	CA95:33396, Vol. 95 (1981) Minamizono et al., DT3,002,724	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. CLT01/4604667v1